

1600

PATENT APPLICATION: US/09/648,389A TIME: 09:51:05

Input Set: A:\EP.txt
Output Set: N:\CRF4\10172002\1648389A.raw

5 <110> APPLICANT: Pinsky, David 7 Stern, David 9 Yan, Shi-Fang 13 <120> TITLE OF INVENTION: Methods for Suppressing Early Growth Response-1 Protein (Egr-1) to 14 Reduce Vascular Injury in a Subject 18 <130> FILE REFERENCE: 0575/62683 22 <140> CURRENT APPLICATION NUMBER: 09/648,389A 24 <141> CURRENT FILING DATE: 2000-08-25 ENTERED 28 <160> NUMBER OF SEO ID NOS: 6 32 <170> SOFTWARE: PatentIn version 3.1 36 <210> SEQ ID NO: 1 38 <211> LENGTH: 15 40 <212> TYPE: DNA RECEIVED 42 <213> ORGANISM: Homo sapiens 46 <400> SEQUENCE: 1 47 cttggccgct gccat OCT 2 5 2002 15 50 <210> SEQ ID NO: 2 52 <211> LENGTH: 15 TECH CENTER 1600/2900 54 <212> TYPE: DNA 56 <213> ORGANISM: Homo sapiens 60 <400> SEQUENCE: 2 15 61 taccgtcgcc gtgct 65 <210> SEQ ID NO: 3 67 <211> LENGTH: 543 69 <212> TYPE: PRT 71 <213> ORGANISM: Homo sapiens 75 <400> SEQUENCE: 3 77 Met Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile 78 1 5 10 81 Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr 2.5 85 Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe 89 Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser 55 93 Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser 97 Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro 85 90 101 Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn 105

105 Glu Lys Val Leu Val Glu Thr Ser Tyr Pro Ser Gln Thr Thr Arg Leu

120

115

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		Gly	Asn	Thr	Leu	-	Pro	Glu	Pro	Leu		Ser	Leu	Val	Ser	
	145	1	_		_,	150	_	_		<b>a</b> .	155	<b>~</b> .	<b>~</b> .		_	160
	Leu	val	Ser	Met		Asn	Pro	Pro	Ala		Ser	ser	ser	Ala		ser
118	_			<b>a</b>	165		<b>a</b>	21-	<b>a</b>	170	G	D	D	T	175	<b>G</b>
	Pro	Ala	Ala		ser	Ala	Ser	Ата	Ser	GIn	ser	Pro	Pro		ser	Cys
122	<b>31</b> -	17- 1	D	180	3	7		Com	185	Tla	m	Com	7.1.	190	Dma	шь»
	Ата	vaı		ser	Asn	Asp	ser	200	Pro	тте	туг	ser		Ата	Pro	THE
126	Dho	Dro	195	Dro	ħ an	mbs	7 an		Dho	Dro	C1.,	Dro	205	Cor	Cln	7 l n
	Pile	210	1111	PIO	ASII	1111	215	TTE	Phe	PIO	GIU	220	GIII	ser	GIII	Ала
131	Dho		C117	cor	λla	C117		λla	Leu	Cln	Пттт		Dro	Dro	λla	ጥ፣፣ም
	225	PIU	GTÄ	ser	нта	230	1111	Ата	Lieu	GIII	235	FIO	FIO	FIU	ΑΙα	240
		λla	λla	Luc	C1 v		Dha	Gln	Val	Dro		T۱۵	Dro	Δen	Тугт	
139	F1.0	ліц	АІС	цуз	245	СТУ	riic	GIII	vai	250	nec	110	110	изр	255	пец
	Phe	Pro	Gln	Gln		Glv	Asn	T.e.u	Gly		Glv	Thr	Pro	Asp		Lvs
143	THE	110	OIII	260	0111	011		Dea	265	ЦСи	0-1		110	270	0111	_10
	Pro	Phe	Gln		Leu	Glu	Ser	Arg	Thr	Gln	Gln	Pro	Ser		Thr	Pro
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151		290			-		295					300			-	
154	Lys	Ala	Leu	Asn	Thr	Ser	Tyr	Gln	Ser	Gln	Leu	Ile	Lys	Pro	Ser	Arg
155	305					310					315					320
158	Met	Arg	Lys	$\mathtt{Tyr}$	Pro	Asn	Arg	Pro	Ser	Lys	Thr	Pro	Pro	His	Glu	Arg
159					325					330					335	
162	Pro	Tyr	Ala	Cys	Pro	Val	Glu	Ser	Cys	Asp	Arg	Arg	Phe	Ser	Arg	Ser
163				340					345					350		
	Asp	Glu		Thr	Arg	His	Ile	_	Ile	His	Thr	Gly		Lys	Pro	Phe
167		_	355		_		_	360	_,	_	_	_	365	•	_	1
	GIn	_	Arg	He	Cys	Met		Asn	Phe	Ser	Arg		Asp	His	Leu	Thr
171	m1	370	T1 -	3	m la	17.2	375	<i>α</i> 1	<b>a</b> 1	<b>T</b>	D	380	. 1 -	Q	3	T1 -
		HIS	тте	Arg	THE	390	THE	СТА	Glu	ьуs		Pne	Ата	Cys	ASP	
175		C1	3	T	Dho		λ ~~ <i>~</i>	Con	7 ~~	<i>α</i> 1	395	T	7 ~~~	1110	mhw	400
179	Cys	GTÀ	AIG	гуѕ	405	нта	Arg	ser	Asp	410	Arg	гуѕ	AIG	птъ	415	цуѕ
	Tlo	Uic	T OU	λνα		Luc	Aen	Luc	Lys		λen	Luc	Sor	Val		λΊэ
183	110	1113	пец	420	GIII	цуз	upb	цуз	425	AIU	дър	цуз	Ser	430	Vul	Alu
	Ser	Ser	Δla		Ser	Ser	Leu	Ser	Ser	Tur	Pro	Ser	Pro		Δla	Thr
187	DCI	001	435		001	001	Lou	440	001	-1-		001	445	,		
	Ser	Tvr		Ser	Pro	Val	Thr		Ser	Tvr	Pro	Ser		Ala	Thr	Thr
191		450					455			-1-		460				
	Ser		Pro	Ser	Pro	Val		Thr	Ser	Phe	Ser		Pro	Gly	Ser	Ser
196		•				470					475			_		480
		Tyr	Pro	Ser	Pro	Val	His	Ser	Gly	Phe	Pro	Ser	Pro	Ser	Val	Ala
200		-			485				_	490					495	
203	Thr	Thr	Tyr	Ser	Ser	Val	Pro	Pro	Ala	Phe	Pro	Ala	Gln	Val	Ser	Ser
204				500					505					510		
207	Phe	Pro	Ser	Ser	Ala	Val	Thr	Asn	Ser	Phe	Ser	Ala	Ser	Thr	Gly	Leu

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				atcacttgag			240						
				gtgccagcgt			300						
				ggtaccctac			360						
				agcctggcct			420						
	-			atggacaact			480						
			-	caggctccga			540						
				ggaggggga			600						
			_	cccctgacc	-		660						
				ccctctcggt	-		720						
				atccagaaaa			780						
		_		cggaatccct	-		840						
				ctttttgttt			900						
				ttctttttcc			960						
				gcttcggaag			1020						
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				aggaggagcg			1140						
	-			gagggaacct			1200						
				cggggtcccc		-	1260						
				ccctccacct			1320						
				cctggtgaga			1380						
				caaaggtggg			1440						
				aggggacccc			1500						
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			-	gggcggcccc	-	-	1680						
			_	cggtccctga			1740						
			-	cctcgccccc			1800						
				gcagccgcgc			1860						
				cgagcgctcg			1920						
				ctcggaccgg			. 1980						
				cagcacctta			2040						
				gaaggcggag			2100						
				gcggctagag			2160						
				ctagggtgca			2220						
				tecteceeg			2280						
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				ccccgcccc			2640
				gatgcagctg			2700
				caccatggac			2760
				gttcctcggc			2820
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				agctcgggtc			3600
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				ctggagcctg			3780
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		_	-	atccgcatcc			4440
	-		_	cgcagcgacc			4500
				gacatctgtg			4560
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			-	ctctcttcct			4680
				ccatccccgg			4740
	_			tcctcgacct			4800
				tactcctctg			4860
				accaactcct			4920
				acaattgaaa			4980
				aagagactta			5040
				agatggaggt			5100
				acaatccttt			5160
				gaaacagcca	_		5220
				gataaatcat			5280
				gaaaatcgag			5340
				cagtgtctgt			5400
403	cooccagag	coccycoccy	caccicityia	caytytetyt	gocacygact	cogulation	2400

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413					aa a	aaaaaaagc caagcaaacc									attttg		
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	cagagcatgt gtcagagtgt																
419	ctcacatgtg gcaaaatatg			tg g						ttttgaaagt gtttttc				tttctt	5700		
421	. cgtccttttg gtttaaaaag			ag t										tgctga	5760		
423	tgg	cttg	aca	tgtg	caat	tg to	gagg	gaca	t gc	tcac	ctct	agccttaagg ggggd				caggga	5820
425	gtga	atga <sup>.</sup>	ttt	gggg	gagg	ct t	tggga	agcaa	a aa	aataaggaag			agggctgagc			cttcgg	5880
427	ttc	tcca	gaa	tgta	agaa	aa ca	aaaa	tcta	a aa	aacaaaatct			gaactctcaa			ctattt	5940
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	_	_				_	_		-	_	_					attgaa	
																gaaaat	
																attgag	
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					_	-		-							_	tcaaat	
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465		Ата	пта	AIu	шу <i>ъ</i> 5	πια	GIU	nec	GIII	10	nec	Det	FIO	пси	15	116	
		λan	Dro	Dho	C 1 17	cor	Dho	Dro	uic		Dro	Thr	Mo+	λαη	Asn	Фил	
471	261	чэр	FIO	20	СТУ	261	FILE	FIO	25	Ser	FIU	1111	Mec	30	ASII	TYL	
	Dro	T 170	T 011		C111	Mot	Mot	LOU		Cor	λan	C117	λla		Gln	Dho	
475	PIO	гуу	35	GIU	GIU	мес	Met	40	пеп	Ser	ASII	Gly	45	PIO	Gili	FIIE	
	LOU	C1.		7 l a	C117	λla	Dro		C117	Cor	C1++	Cor		Cor	Ser	Cor	
479	ьeu	50	Ала	ніа	СТУ	нта	55	GIU	СТУ	ser	СТУ	60	ASII	ser	ser	SET	
	Cor		Com	C1	C1	C1	-	C1**	C1,,,	C1 **	C111		C02	λαη	Ser	Cor	
		ser	ser	GLY	СТУ	_	GIY	СТУ	GTÅ	СТУ	75	СТУ	ser	ASII	ser	80	
483		0	0	O = ==	m la sa	70	7 an	Dma	C1 n	7 1 n		mh∞	C1	c1	C3 n		
	ser	ser	ser	ser		Pne	ASII	Pro	GIII		ASP	THE	СТУ	GIU	Gln	PIO	
487		<b>a</b> 1	*** -	т	85		a1		Dh.	90	3	т1.	O	т	95	3	
	Tyr	GIU	HIS		Thr	Ата	GIU	ser		Pro	Asp	шe	ser		Asn	Asn	
491		_		100			1	_	105	_	_		_,	110	_	_	
	Glu	Lys		Leu	Val	GIu	Thr		Tyr	Pro	Ser	GIn		Thr	Arg	Leu	
495			115					120		_			125		_	_	
	Pro		Ile	Thr	Tyr	Thr		Arg	Phe	Ser	Leu		Pro	Ala	Pro	Asn	
499		130		_			135	_			_	140				_	
		Gly	Asn	Thr	Leu	_	Pro	Glu	Pro	Leu		Ser	Leu	Val	Ser	-	
	145					150					155					160	
	Leu	Val	Ser	Met		Asn	Pro	Pro	Ala		Ser	Ser	Ser	Ala	Pro	Ser	
507					165					170					175		
	Pro	Ala	Ala		Ser	Ala	Ser	Ala		Gln	Ser	Pro	Pro		Ser	Cys	
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VERIFICATION SUMMARY

DATE: 10/17/2002 TIME: 09:51:06

PATENT APPLICATION: US/09/648,389A

Input Set : A:\EP.txt

Output Set: N:\CRF4\10172002\I648389A.raw

L:726 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2